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Fig. 4. A cell with the polype retracted.

a, *a*, *a*. The polype cell.

b. The orifice of the cell.

c, *c*. The inverted membrane, which, in the completely retracted condition of the polype, consists of that portion of the internal membrane which had been carried out in the act of exsertion, together with the more flexible termination of the external tunic of the cell.

d. The stomach of the polype.

e. The rectum.

f. The œsophagus. Both rectum and œsophagus are here curved upon themselves, and thus accommodated to the retracted state of the polype.

g, *g*. The crown of tentacula retracted, and the tentacula approximated into a close fasciculus.

h, *h*. The proper retractor muscles of the polype in a state of contraction.

i, *i*, *i*. The opercular muscles also contracted.

k, *k*, *k*, *k*. The parietal muscles relaxed.

Dr. Robinson gave a brief account of meteors observed at Armagh on the 10th of August, 1842, apologizing for the imperfect nature of the observations, while he felt that it was desirable that they should be placed on record.

The sky had been overcast, but became clear a little after ten, of which Dr. R. was availing himself to try an eyepiece of a peculiar construction, when the appearance of two large meteors, travelling in nearly the same direction, reminded him of the peculiar character of the 10th, and in conjunction with T. F. Bergin, Esq. and another observer, he proposed to watch for others. The roof of the dwelling-house afforded an excellent position. Mr. Bergin looked south-west; he (Dr. R.) east; and the third north. From $10^h.55^m$. Armagh time, till 12^h, seventy-eight were seen; of which about twenty were in Dr. Robinson's district, and fifty in Mr. Bergin's. With scarcely any exception, their tendency was in tracks converging at ζ Ophiuchi. The greater part of them were larger than ordinary falling stars, and left a red train; in some instances a luminous cloud marked for a few seconds the place of their disappearance, and then was faint Aurora towards north-west. The night was occasionally cloudy, and after twelve became completely overcast.

DONATIONS.

Report of the Limerick Philosophical and Literary Society. Presented by Dr. Gore.

Supplementary Appendix to the Report of the Poor Law Commissioners on the Medical Charities, Ireland. Presented by the Commissioners.

February 13.

SIR WM. R. HAMILTON, LL.D., President, in the Chair.

Robert Culley, Esq., James Magee, Esq., and H. L. Renny, Esq., were elected members of the Academy.

A paper on the Action of certain Salts as Manures, by the Rev. Thomas Knox, was read by the Secretary of Council.

" A small meadow, containing about an English acre, was divided into six plots, and in last Spring, were manured as follows:

1st.	2nd.	3rd.	4th.	5th.	6th.
Ashes.	Stable manure.	Burned gypsum, 4 stone.	Muriate of ammonia, 6 lbs.; pearl ash, 6 lbs.; 8 lbs. of bones, burned and dissolved in half a pint of sulphuric acid, and diluted largely.	Guano, 2 stone.	2½ barrels of lime mixed with earth.